

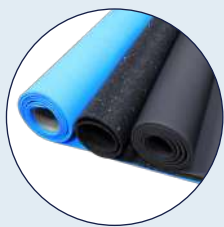
AEROSOUND[®]

Civil & Architecture Applications

Engineered Silence for Modern Spaces



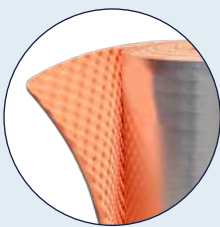
Acoustic Comfort Solutions for Floor and Wall



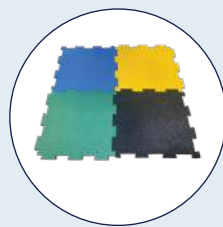
Acoustic Floor Underlay



Acoustic Sound Barriers



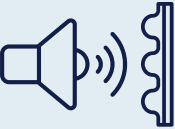
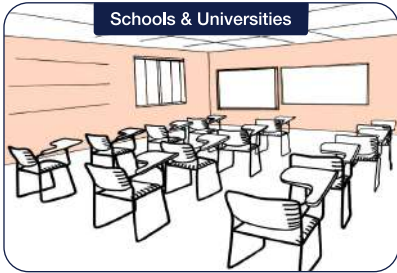
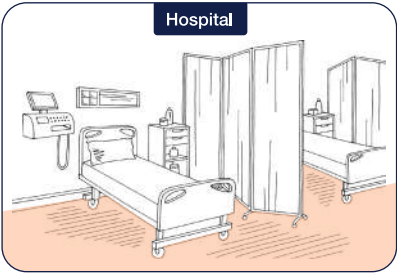
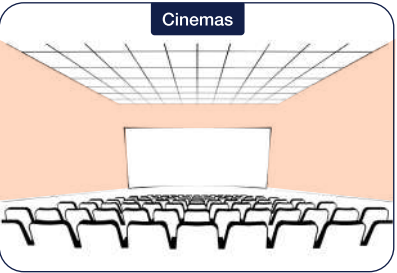
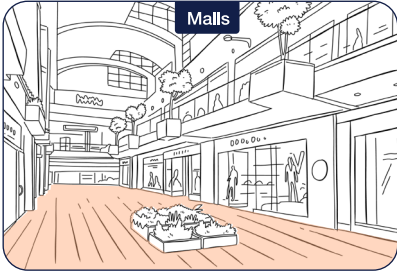
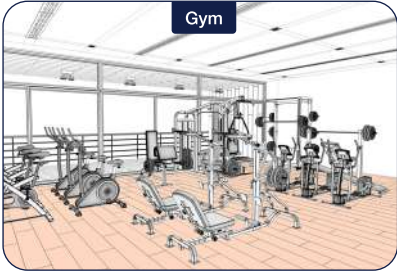
Floating Floor System



Gym Flooring

Flooring Acoustic Solutions

Create quieter, more comfortable spaces with our flooring acoustic solutions. Whether it's stylish underlays, floating floors, or heavy-duty gym flooring, our products reduce noise while adding comfort and durability. Perfect for homes, offices, and sports areas, we provide blend performance with solutions.



- Impact Noise Reduction
- Vibration Isolation
- Sustainability & LEED
- Acoustic Privacy
- Thermal Comfort
- Easy Installation

Acoustic Floor Underlay

We deliver advanced acoustic flooring solutions - from underlay systems to floating floors and gym flooring that reduce noise, enhance comfort, and ensure long-lasting performance. Designed for modern architecture and civil applications, our solutions support sustainable construction while shaping quieter, more efficient spaces.



Properties	AeroSound® SF	AeroSound® ESF	AeroSound® RSF
Material type	Cross-linked polyolefin foam	Flexible elastomeric foam	Elastomeric rubber mat with recycled rubber content

Features & Advantages:



Long lifespan



Excellent acoustic properties



Does not absorb water



Environmental friendly



Helps to protect screed from cracking



Resistant to bacteria, mold, fungi growth

Why Acoustic Underlay?

Acoustic materials deliver superior sound control by effectively absorbing and dampening noise. They significantly reduce both impact noise (e.g., footsteps, dropped objects) and airborne noise (e.g., conversations) between floors and walls. By isolating vibrations, they create a quieter, more comfortable environment. In addition, they are highly durable, long-lasting, and offer excellent thermal insulation, making them a reliable and versatile solution for a wide range of applications.



Aerosound® FFS Floating Floor System

The AeroSound® FFS floating floor system is designed for effective acoustic and vibration isolation in buildings. Unlike traditional floors, it uses resilient layers to separate the floor from the structural slab, reducing noise transmission, isolating vibrations, and enhancing acoustic comfort without compromising design or service integration.

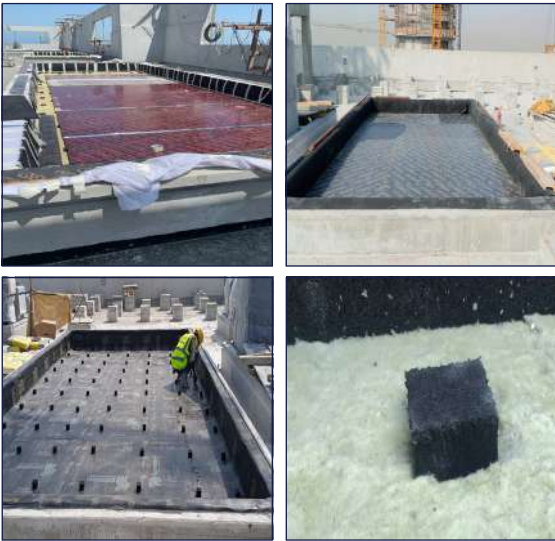


Benefits of Aerosound® FFS:

- Impact Noise Reduction
- Flexible Insulation
- Vibration Isolation
- Acoustic Privacy
- Thermal Comfort

Floating Floor Section detail					
Air Gap	Total Thickness	STC	IIC	ΔIIC	Natural Frequency
50 mm	70 mm	71	72	43	>8.8 Hz
Acoustic performance of the AeroSound® RSF floating floor system based on Air gap and total thickness.					

- For MEP Equipment (Chillers, FAHU, AHU, Pumps, Generators, Transformer rooms).
- Swimming Pool isolation (Commercial and Residential).
- Gym Floor isolations (Commercial and Residential).
- Theater, Cinemas, Studios, Conferreence halls, Schools and Hospitals.
- Hotels, Residential and Mixed-Use Developments.



AeroSound® HDM

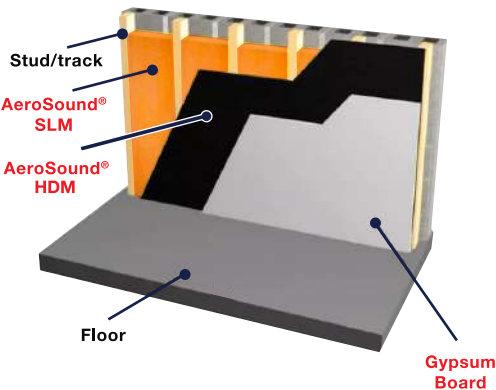
High-Density Acoustic Vinyl Barrier

AeroSound® HDM is an high-density mass loaded vinyl acoustic barrier designed to deliver exceptional soundproofing performance, even in the low-frequency range where traditional insulation often fails. Engineered with advanced materials and a dense mineral-filled vinyl core, this product significantly improves sound transmission loss across a broad frequency spectrum. AeroSound® HDM is easy to handle and install behind drywall, behind cladding, or beneath acoustic panels. Whether you're soundproofing walls and ceilings it integrates seamlessly into various construction and renovation projects.



Benefits of Aerosound® HDM:

- Excellent sound isolation performance.
- Durable and tear-resistant reinforced backing.
- Flexible for easy cutting and fitting into irregular spaces.
- Compatible with a variety of acoustic and structural systems.



Properties		Value/ Assessment
Color		Black
Roll size		1350 mm x 3 m or 5 m (Other sizes available on request)
Nominal Thickness		from 2 mm up to 4 mm from 5/64" inches 5/32" inches ±5% tolerance
Weight		8kg/m² ±5%
Hardness		80 Shore A
Tensile strength	MD	<2.78 N/mm²
	TD	<2.78 N/mm²
Tear strength	MD	<14.53 kN/m
	MD	<14.03 kN/m
Fire properties		Self-extinguishing according to FMVSS 302

Wall Assembly	STC	Rw
Gap: Minimum 10 mm, maximum 15 mm, filled to the full depth of the plasterboard with fire and acoustic-rated sealant. 50 mm thick (2 layers of 25 mm) Aerosound SLM Acoustic Insulation vertically restrained in the stud cavity. Foam Tape Minimum 2 layers of 12.5 mm thick plasterboard. AeroSound HDM 3 mm. 70 mm Stud profile.	58	55
STC as Per ASTM E.90 / RW as Per EN ISO 717.1		

AeroSound® SLM

Acoustic Wall Barriers

AeroSound® SLM is a compact acoustic panel made of PU foam, MLV barrier, and aluminum foil. It is ideal for walls, ceilings, and partitions, helping reduce noise transmission. It can also support green building certifications like LEED and BREEAM.



Benefits of Aerosound® SLM:

- Advanced Noise Control Solutions for Enhanced Wall Performance.
- Space-Efficient Acoustic Upgrade Without Compromising Design.
- Improved Surface Protection & Long-Term Durability.
- Added Thermal Insulation & Fire Safety Benefits.
- Flexible & Easy Installation Across Applications.
- Supports Sustainability Goals & LEED Compliance.

Properties	Value/ Assessment	Tested acc. to:
Reaction to fire	Class 0	BS 476 part 6 & part 7
	Class A	ASTM E84
	Ignitability: 0, Flame propagation: 0, Heat release: 0, Smoke developed index: 1	As per AS1530.3
Color	Silver / Orange	
Thermal Conductivity	0.042 w/mK at 23 °C	ASTM C518
Total volatile organic compound (VOC) emission rate	<0.5 mg/m²/hr	as per ASTM D5116
Operating Temperature Range (°C)	-40 °C to +100°C	ASTM C1304
Odour emission	Free from odour	
Size	W: 1350 mm (±20 mm tolerance) L: 25m & 5 m (±50 mm tolerance)	
	W: 53-3/32" tolerance 1-31/32" L: 5/64"- 3/16" tolerance 25/32"	
Weight	5kg/m² (±5% / -10%)	
Thickness	25mm 31/32" tolerance (±5 mm)	
Note: Product does not contain any fibres, asbestos, mercury or lead		

Wall Assembly	STC	Rw
STC as Per ASTM E.90 / RW as Per EN ISO 717.1	62	60

Acoustic Flooring for Gyms & Sports

Aerosound® Gym Flooring is a high-density rubber flooring system designed specifically for gym and fitness environments, combining durability, impact resistance and sound control in a single flooring solution.



Benefits of Acoustic Flooring:

- Absorbs impact and vibration from equipment.
- Reduces noise to adjacent and lower floors.
- Durable for heavy use and loads.
- Easy to maintain with long-lasting performance.
- Slip-resistant and comfortable underfoot.

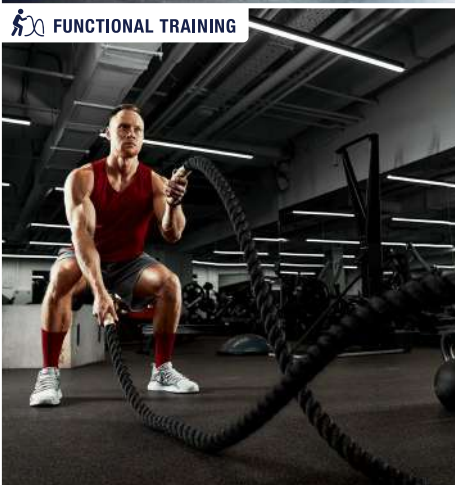
FITNESS



WEIGHT LIFTING



FUNCTIONAL TRAINING



AEROBIC



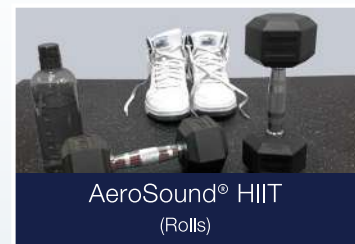
CARDIO



YOGA, PILATES & REHABILITATION



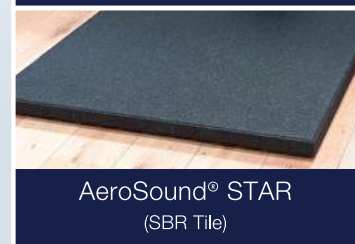
AeroSound® HIIT
(Rolls)



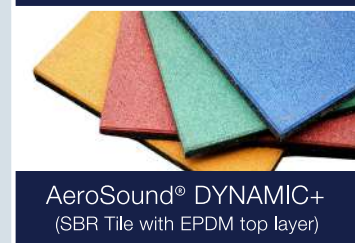
AeroSound® PUZZLE
(Interlock Tiles)



AeroSound® STAR
(SBR Tile)



AeroSound® DYNAMIC+
(SBR Tile with EPDM top layer)



AEROSOUND®

Global Footprint



Manufacturing Units



Registered Entities



Channel Partners

Acoustic Engineering Applications: In everyday life we can face many problems due to noise in our surroundings, thus we need to find solutions with the help of engineering to control/reduce annoying noise levels without affecting the performance of the construction. From auditoriums, theaters, concert halls to classrooms, hotel rooms, residential and offices, we can use AeroSound® products to reduce the noise that is transferred from one point to another and thus create acoustic comfort using the products alone or in combination with others. A clear example is the design of acoustic panels to absorb noise and avoid reverberation or echo, creating pleasant aesthetic designs by mixing colors for a better finish. In relation to exterior solutions, it can be used on the top of a building or outside a building. It is common to see very noisy electro-mechanical systems such as chillers, AC equipments, electric generators, compressors and boilers to name a few. In such cases, noise control is essential and that is why AeroSound® products can be used in combination with other materials for the construction of noise barrier walls. For better advice and more information, please contact our technical department or our local representative.

For LEED requirements/compliance, please contact our technical department or local representative.

Disclaimer: This information on Hira Industries products is presented to the best of our knowledge. All product data is based on average values and is for guidance only. As these products are subject to constant research and development, we reserve the right to update the contents without notice.

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Hira
INDUSTRIES